

ABSTRACT OF THE DISCLOSURE

**SYSTEM AND METHOD FOR BROADBAND
ROAMING CONNECTIVITY USING DSL**

A broadband communication appliance allows multiple, simultaneous access by a multiplicity of users to a high-speed broadband wide area network connection. Multiple data lines, facilitated within a user premises are aggregated, by high-density connectors, into a system that includes multiple DSL modems, coupled to a wide area network through a high-speed network interface device. Data service requests are detected and particular ones of the DSL modems are assigned to service a particular data line. Bi-directional communication, using the modem bank, is concentrated through the high-speed network interface device, such that multiple users are able to obtain broadband connectivity, using DSL data rates. Users are authenticated as DSL subscribers, by maintaining their subscription profile information on an authentication server. The system retrieves a subscriber's profile information from their local authentication server, and maintains it locally, such that a user is able to effect DSL communication in accordance with DSL service, as obtained from their own service provider. A user is able to therefore "roam" while maintaining DSL connectivity.